

Permeable Treatment Wall Update Quarterly Public Meeting

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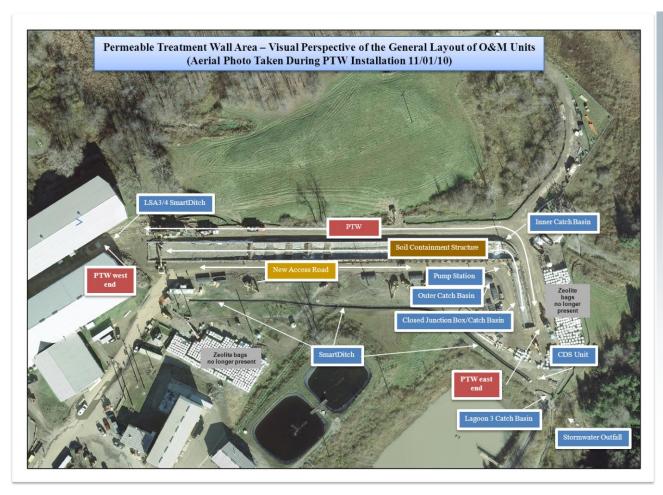
May 28, 2014

Sr-90 Plume Remedial Action Objectives

Remediation Alternatives Evaluated Against North Plateau Plume Remedial Action Objectives (RAOs)

- Reduce Sr-90 leaving the site to ALARA (goal < 1,000 pCi/L)
- 2. Minimize expansion of plume
- 3. Technology used for containment does not preclude strategies for site decommissioning

System Operation and Maintenance



- Monthly inspection and O&M Plan
- Quarterly monitoring
- Groundwater level monitoring - as needed
- Results reported annually
- Pump and Treat discontinued - April 2013

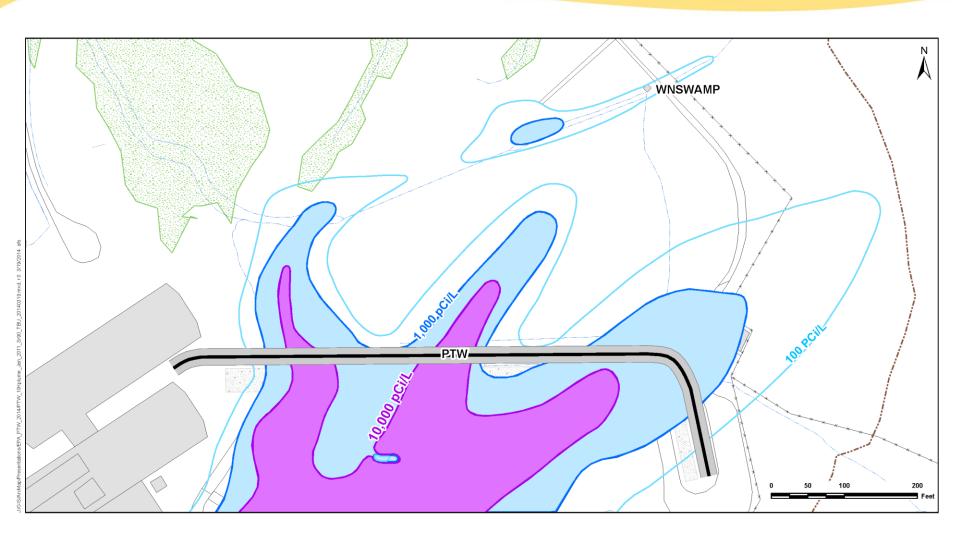
WVDP-Permeable Treatment Wall Update

The PTW has met the functional requirement to limit plume expansion above 10,000 pCi/L

- Plume concentrations ≥10,000 pCi/L are contained and treated by the PTW
- Containing the plume achieves the remedial objective to reduce or eliminate groundwater contamination exiting the WVDP North Plateau to as low as practically achievable

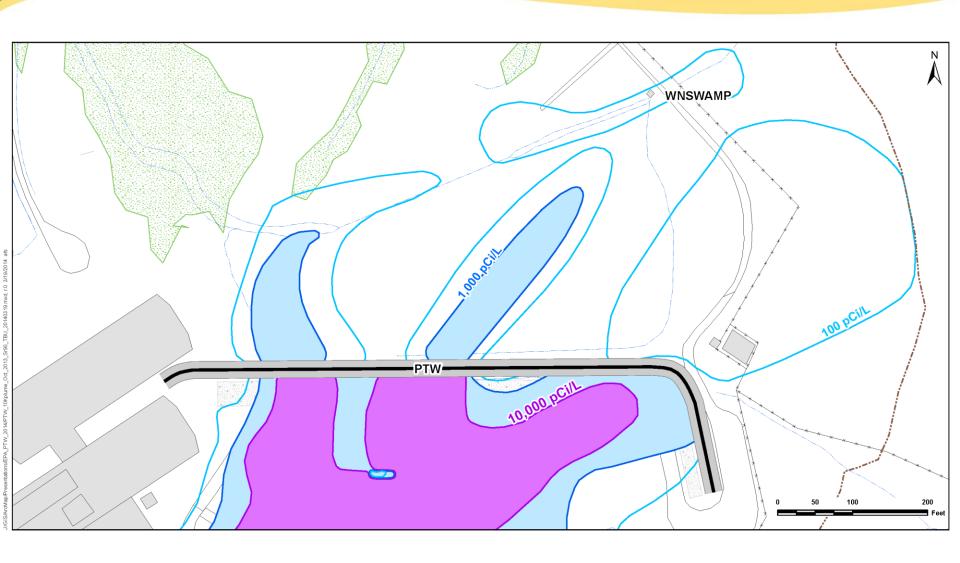
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Sr-90 Plume Delineation (January 2011 Baseline)



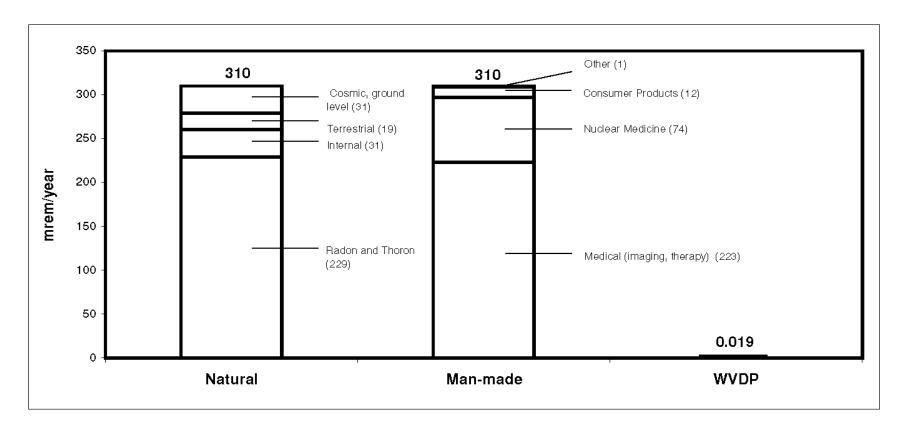
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Sr-90 Plume Delineation (October 2013)



Comparison of Dose From Natural and Man-Made Sources^a to the Dose from 2012 WVDP Effluents

Figure 3-1 of ASER



^a Source: National Council on Radiation Protection and Measurements (NCRP) Report Number 160, 2009.

Conclusions and Future Actions

- PTW continues to perform well
 - Achieving remedial action objectives and functional requirements
 - Continue quarterly monitoring and performance evaluations, document in annual reports
 - Continue monitoring and evaluation of intra-PTW well Sr-90 concentrations and associated downgradient results